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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-06-26-40** **Date: 02/05/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains at Valmiki Nagara Cross Roads in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/28/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-04-2019

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/05/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	25/04/2019	02/05/2019	151.05 X 150.94 X 150.69	22799	**8.714**	276.1	12.1	12.3
2	PCC	M15	25/04/2019	02/05/2019	151.10 X 149.62 X 150.23	22607	**8.866**	274.2	12.1	
3	PCC	M15	25/04/2019	02/05/2019	151.54 X 150.40 X 150.35	22791	**8.101**	286.2	12.6	

Note:

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Samples will be disposed after 90 days from the date of issue of test certificate

AEE (VRP) SD

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-06-26-40** **Date: 23/05/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains at Valmiki Nagara Cross Roads in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/28/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-04-2019

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/05/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	25/04/2019	23/05/2019	149.04 X 149.47 X 150.52	22276	**8.919**	394.7	17.7	17.4
2	PCC	M15	25/04/2019	23/05/2019	150.98 X 150.11 X 150.22	22663	**8.887**	390.4	17.2	
3	PCC	M15	25/04/2019	23/05/2019	151.21 X 150.07 X 151.22	22693	**8.085**	390.6	17.2	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-06-26-40** **Date: 02/05/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains at Valmiki Nagara Cross Roads in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/28/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-04-2019

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/05/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	25/04/2019	02/05/2019	149.09 X 149.58 X 150.98	22301	**8.714**	278.6	12.5	12.7
2	PCC	M15	25/04/2019	02/05/2019	149.40 X 151.59 X 150.73	22646	**8.866**	290.7	12.8	
3	PCC	M15	25/04/2019	02/05/2019	149.54 X 149.00 X 150.22	22281	**8.101**	283.0	12.7	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-06-26-40** **Date: 23/05/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains at Valmiki Nagara Cross Roads in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/28/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-04-2019

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/05/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	25/04/2019	23/05/2019	151.21 X 150.52 X 151.17	22759	**8.919**	400.4	17.6	
2	PCC	M15	25/04/2019	23/05/2019	150.16 X 149.79 X 149.96	22493	**8.887**	385.9	17.2	17.5
3	PCC	M15	25/04/2019	23/05/2019	149.49 X 150.81 X 150.61	22545	**8.085**	399.7	17.7	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-06-26-40** **Date: 02/05/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains at Valmiki Nagara Cross Roads in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/28/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-04-2019

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/05/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	25/04/2019	02/05/2019	151.10 X 149.93 X 149.33	22655	**8.714**	285.3	12.6	12.4
2	PCC	M15	25/04/2019	02/05/2019	151.71 X 150.46 X 149.15	22825	**8.866**	288.4	12.6	
3	PCC	M15	25/04/2019	02/05/2019	151.21 X 149.81 X 149.72	22653	**8.101**	272.6	12.0	

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Lab ID : **CP-2019-06-26-40** **Date: 23/05/2019**

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Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains at Valmiki Nagara Cross Roads in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/28/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-04-2019

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/05/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	25/04/2019	23/05/2019	151.16 X 150.51 X 150.74	22751	**8.919**	408.2	17.9	17.7
2	PCC	M15	25/04/2019	23/05/2019	149.73 X 149.76 X 150.38	22423	**8.887**	401.9	17.9	
3	PCC	M15	25/04/2019	23/05/2019	150.30 X 150.02 X 151.49	22547	**8.085**	390.3	17.3	

Note:

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Lab ID : **CP-2019-06-26-40** **Date: 02/05/2019**

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Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/28/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-04-2019

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/05/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	25/04/2019	02/05/2019	151.47 X 150.55 X 151.98	22804	**8.714**	276.2	12.1	
2	PCC	M15	25/04/2019	02/05/2019	149.31 X 151.79 X 151.93	22663	**8.866**	283.5	12.5	12.5
3	PCC	M15	25/04/2019	02/05/2019	149.27 X 151.18 X 150.18	22566	**8.101**	290.6	12.9	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-06-26-40** **Date: 23/05/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains at Valmiki Nagara Cross Roads in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/28/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-04-2019

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/05/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	25/04/2019	23/05/2019	149.71 X 151.10 X 151.32	22621	**8.919**	400.0	17.7	
2	PCC	M15	25/04/2019	23/05/2019	151.17 X 151.15 X 150.31	22849	**8.887**	395.0	17.3	17.6
3	PCC	M15	25/04/2019	23/05/2019	151.99 X 151.44 X 150.53	23017	**8.085**	408.3	17.7	

Note:

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AEE (VRP) SD

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-06-26-40** **Date: 04/05/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains at Valmiki Nagara Cross Roads in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/28/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-04-2019

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/05/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	27/04/2019	04/05/2019	149.53 X 151.15 X 150.00	22600	**8.098**	419.1	18.5	18.7
2	Cement Concrete Pavement	M20	27/04/2019	04/05/2019	149.18 X 151.55 X 149.36	22608	**8.118**	424.4	18.8	
3	Cement Concrete Pavement	M20	27/04/2019	04/05/2019	149.74 X 150.80 X 149.32	22581	**8.726**	426.0	18.9	

Note:

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AEE (VRP) SD

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-06-26-40** **Date: 25/05/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains at Valmiki Nagara Cross Roads in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/28/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-04-2019

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/05/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	27/04/2019	25/05/2019	149.34 X 150.32 X 149.31	22449	**8.990**	535.6	23.9	23.1
2	Cement Concrete Pavement	M20	27/04/2019	25/05/2019	150.56 X 149.59 X 149.21	22522	**8.420**	502.1	22.3	
3	Cement Concrete Pavement	M20	27/04/2019	25/05/2019	150.81 X 150.37 X 151.17	22678	**8.682**	524.9	23.1	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-06-26-40** **Date: 04/05/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains at Valmiki Nagara Cross Roads in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/28/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-04-2019

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/05/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	27/04/2019	04/05/2019	149.90 X 150.75 X 149.39	22597	**8.098**	425.0	18.8	18.6
2	Cement Concrete Pavement	M20	27/04/2019	04/05/2019	149.27 X 149.38 X 150.45	22298	**8.118**	414.5	18.6	
3	Cement Concrete Pavement	M20	27/04/2019	04/05/2019	150.15 X 149.65 X 150.80	22471	**8.726**	415.6	18.5	

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R.KARTHIK RECHAN
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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-06-26-40** **Date: 25/05/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains at Valmiki Nagara Cross Roads in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/28/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-04-2019

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/05/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	27/04/2019	25/05/2019	149.72 X 149.94 X 150.54	22448	**8.990**	530.7	23.6	23.3
2	Cement Concrete Pavement	M20	27/04/2019	25/05/2019	150.60 X 149.78 X 149.34	22556	**8.420**	509.7	22.6	
3	Cement Concrete Pavement	M20	27/04/2019	25/05/2019	150.28 X 150.86 X 149.88	22671	**8.682**	533.1	23.5	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-06-26-40** **Date: 04/05/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains at Valmiki Nagara Cross Roads in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/28/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-04-2019

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/05/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	27/04/2019	04/05/2019	150.11 X 149.13 X 149.17	22386	**8.098**	414.2	18.5	18.5
2	Cement Concrete Pavement	M20	27/04/2019	04/05/2019	151.85 X 151.19 X 151.22	22958	**8.118**	419.9	18.3	
3	Cement Concrete Pavement	M20	27/04/2019	04/05/2019	151.27 X 149.75 X 151.08	22653	**8.726**	420.8	18.6	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-06-26-40** **Date: 25/05/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains at Valmiki Nagara Cross Roads in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/28/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-04-2019

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/05/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	27/04/2019	25/05/2019	150.36 X 150.30 X 150.38	22598	**8.990**	542.0	24.0	23.4
2	Cement Concrete Pavement	M20	27/04/2019	25/05/2019	151.97 X 151.21 X 149.05	22979	**8.420**	523.1	22.8	
3	Cement Concrete Pavement	M20	27/04/2019	25/05/2019	150.63 X 150.20 X 150.73	22626	**8.682**	527.4	23.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-06-26-40** **Date: 04/05/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains at Valmiki Nagara Cross Roads in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/28/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-04-2019

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/05/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	27/04/2019	04/05/2019	151.89 X 149.15 X 151.70	22654	**8.098**	409.4	18.1	18.2
2	Cement Concrete Pavement	M20	27/04/2019	04/05/2019	151.86 X 149.31 X 149.28	22675	**8.118**	409.8	18.1	
3	Cement Concrete Pavement	M20	27/04/2019	04/05/2019	151.93 X 150.44 X 149.91	22857	**8.726**	422.3	18.5	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-06-26-40** **Date: 25/05/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains at Valmiki Nagara Cross Roads in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/28/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-04-2019

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/05/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	27/04/2019	25/05/2019	150.17 X 149.07 X 151.82	22386	**8.990**	515.6	23.0	23.1
2	Cement Concrete Pavement	M20	27/04/2019	25/05/2019	151.01 X 151.27 X 151.76	22843	**8.420**	511.8	22.4	
3	Cement Concrete Pavement	M20	27/04/2019	25/05/2019	151.66 X 149.56 X 150.34	22682	**8.682**	541.3	23.9	

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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2019-06-26-40** **Date: 19-04-2019**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains at Valmiki Nagara Cross Roads in Ward No.11 Kuvempunagara.
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/28/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-04-2019
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	15-04-2019

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	401	198	203	16118	32.895	2040.9	2056.3	Not less than 1800Kg/m^3
2	404	199	202	16240	33.257	2047.8		
3	398	201	198	15840	32.947	2080.0		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Lab ID : **CP-2019-06-26-40** **Date: 19-04-2019**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	401	201	202	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	402	201	203	
3	403	203	203	
4	402	203	199	
5	401	201	203	
6	401	199	199	
7	404	201	202	
8	403	202	199	
9	402	199	200	
10	400	202	203	
11	400	200	199	
12	401	200	202	
13	402	203	199	
14	402	200	201	
15	401	200	200	
16	403	202	200	
17	404	200	201	
18	402	200	201	
19	402	200	202	
20	403	200	202	
Average of 20	**402**	**201**	**201**	

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Lab ID : **CP-2019-06-26-40** **Date: 19-04-2019**

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	401	201	80527	320.8	4.0	4.3
2	402	201	80827	340.8	4.2	
3	403	203	81873	348.2	4.3	
4	402	203	81525	346.2	4.2	
5	401	201	80591	338.9	4.2	
6	401	199	79746	328.6	4.1	
7	404	201	80990	386.4	4.8	
8	403	202	81430	342.4	4.2	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2019-06-26-40** **Date: 24-04-2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains at Valmiki Nagara Cross Roads in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/28/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-04-2019

Sample Type /Size : Precast Cover Slab(100 mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 20/04/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-06-26-40** **Date: 13-04-2019**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains at Valmiki Nagara Cross Roads in Ward No.11 Kuvempunagara.
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/28/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-04-2019
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	11-04-2019
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.1	_
2	Finess by Air permeablity method (m^2/kg,Min)	284.5	225m^2/kg, Min
3	Density (gm/cc)	3.13	_
4	Standard Consistency (%)	27.5	Not specified
5	Initial Setting time	180 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

Note:

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-06-26-40** **Date: 09-05-2019**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains at Valmiki Nagara Cross Roads in Ward No.11 Kuvempunagara.
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/28/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-04-2019
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	11-04-2019
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-06-26-40** **Date: 13-04-2019**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains at Valmiki Nagara Cross Roads in Ward No.11 Kuvempunagara.
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/28/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	10-04-2019
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	10-04-2019

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	751	751	5.0	95.0	90-100
3	20 mm	6598	7349	49.0	51.0	30-70
4	10 mm	4751	12100	80.7	19.3	10-35
5	4.75 mm	2593	14693	98.0	2.0	0-5
6	Pan	307	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-06-26-40** **Date: 13-04-2019**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	_
4	Bulk Density(Loose) (Kg/l)	1.49	_
5	Bulk Density(Compacted) (Kg/l)	1.52	_
6	Water Absorption(%)	0.17	_

Note:
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

AEE (VRP) SD

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-06-26-40** **Date: 12-04-2019**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains at Valmiki Nagara Cross Roads in Ward No.11 Kuvempunagara.
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
Customer Reference	:	BBMP/EE/BTP/WO/28/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-04-2019
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	10-04-2019

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	235	235	4.7	95.3	90-100
3	10 mm	2470	2705	54.1	45.9	25-55
4	4.75 mm	2133	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-06-26-40** **Date: 12-04-2019**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.5	
3	Specific Gravity	2.67	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-06-26-40** **Date: 12-04-2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains at Valmiki Nagara Cross Roads in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/28/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-04-2019

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 10-04-2019

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-06-26-40** **Date: 12-04-2019**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	_
2	Specific Gravity	2.59	_
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Quality Manager

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